

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10 (cancelled)

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Claim 11 (currently amended): A method for digital radio transmission of data between a fixed station and at least one mobile station at one of a number of carrier frequencies, said method comprising ~~the steps of:~~

transmitting data in a number of time slots using a time-division multiplex method, said data being transmitted in active time slots each of which is followed by an inactive time slot in which no data is transmitted, said inactive time slot having a time duration shorter than a time duration of an active time slot; and

changing from a first carrier frequency to a second carrier frequency after a predetermined time period having an order of magnitude of one time slot, wherein changing from the first carrier frequency to the second carrier frequency is performed during the inactive time slot by a RF module.

Claim 12 (original): The method according to claim 11, wherein a time duration of an inactive time slot is half that of a time duration of an active time slot.

Claim 13 (original): The method according to claim 11, wherein said data is transmitted using a time-division multiplex duplex method.

Claim 14 (original): The method according to claim 11, wherein a transmission frame has four active time slots for transmitting from said fixed station to said mobile station and four time slots for transmitting from said mobile station to said fixed station.

Claim 15 (original): The method according to claim 11, wherein said data is transmitted in a 2.4 GHz band.

Claim 16 (currently amended): An arrangement for digital radio transmission of data between a fixed station and at least one mobile station in a number of time slots using the time-division multiplex method, and at a number of carrier frequencies using the frequency-division multiplex method, said arrangement comprising:

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a fixed station having a first RF module for choosing a carrier frequency for transmitting during one of said time slots, and for changing from a first carrier frequency to a second carrier frequency during a predetermined time period on an order of magnitude of one time slot, for choosing the first carrier frequency for transmitting the data during one of the time slots and for changing the carrier frequency during an inactive time slot;

at least one mobile station having a second RF module for choosing a carrier frequency for transmitting during one of said time slots, and for changing from said first carrier frequency to said second carrier frequency during said predetermined time period on an order of magnitude of one time slot, and for changing the carrier frequency during the inactive time slot; and

a transmission time frame having active time slots in which data is transmitted, each of said active time slots being followed by an inactive time slot in which no data is transmitted, said inactive time slot having a time duration being shorter than that of a time duration of an active time slot.

Claim 17 (original): The arrangement according to claim 16, wherein said time duration of said inactive time slot is half that of said duration of said active time slot.

Claim 18 (currently amended): The arrangement according to claim ~~18~~ 16, wherein said transmission frame comprises four active time slots for transmitting from said fixed station to said mobile station, and four time slots for transmitting from said mobile station to said fixed station.

Claim 19 (original): The arrangement according to claim 16, wherein said carrier frequencies are in a 2.4 GHz band.

~~Claim 20 (cancelled)~~